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CIN:U70100KA2015PTC084544, PAN:AAFCN1036R, GSTIN 29AAFCN1036R1ZZ

REF: NEZPL/OC/22-23/1267 **Date: 06-05-2022**

To,

The Executive Engineer,
Bruhat Bengaluru Mahanagara Palike,
Road Infrastructure – Dasarahalli Division
No. 207, 2nd Floor, New Annexe Building-3,
N R Square, Bengaluru – 560002.

"PMC CERTIFICATE AND INSPECTION REPORT"

Sub: - Regarding Inspection Report for the below mentioned work.

Name of Work- **Widening and Comprehensive Development of Abbigere Main Road from Renaissance Woods-3 Apartment to Abbigere Park.**

Item No.	Description of work	Unit	Qty.	Remarks
18	KSRRB 300-50. Scarifying bituminous course 50mm to 75mm thick along with premix carpet /surface dressing by mechanical means attached with scarified without disturbing the base and stacking the debris including cost of all labour charges, HOM complete as specifications.	Sqm.	4196.75	Work is done upto the bill quantity and the quality is satisfactory.
19	KSRRB M300-14. Excavation for roadwork in all types of soil by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 21.00 km and complete as per specifications.	Cum.	13376.25	Work is done upto the bill quantity and the quality is satisfactory.
20	earthwork in excavation for foundation of structures like culverts, retaining walls etc., as per drawing and technical specifications, including setting out, construction of shoring and bracing, dressing of sides and bottom, back filling with approved material, disposal of balance earth as per specifications, including cost of labour, HOM etc, complete in all kinds of soil by mechanical means.	Cum.	464.32	Work is done upto the bill quantity and the quality is satisfactory.
22	KSRRB M300-54. Construction of embankment with approved material deposited at site from roadway cutting and excavation from drain and foundation of other structures graded and compacted to meet requirement Table 300-2 complete as per specifications which include watering charges and compaction by vibratory roller.	Cum.	1182.34	Work is done upto the bill quantity and the quality is satisfactory.
23	Construction of embankment with approved material Gravel/Murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirements Table 300-2 complete as per specifications, including cost of gravel/Murrum, watering charges and compaction by vibratory roller to 95% of modified proctor's density.	Cum.	1576.46	Work is done upto the bill quantity and the quality is satisfactory.
25	Providing and laying in position plain cement concrete of mix 1:2:4 for sub-structure works like culverts, retaining walls etc., with cement @ 240kgs, 40mm and down size graded granite metal coarse aggregate @0.84cum and fine aggregates @ 0.46cum machine mixed with necessary scaffolding, form work etc.,	Cum.	307.52	Work is done upto the bill quantity and the quality is satisfactory.

	including cost of labour, HOM, curing etc., complete as per MORT&H section 2200 and IS 456.			
26	Providing and laying in position plain / Reinforced cement concrete M20 for sub-structure/super-structure works, with cement @320kgs, 20mm & down size graded granite metal coarse aggregate @0.64cum and fine aggregates @ 0.43cum machine mix with super plasticisers @3lts confirming to IS 9103-1999 reaffirmed 2008, including cost of labours, HOM curing, scaffoldings, form work etc., complete as per specifications b) upto 5m height.	Cum.	270.21	Work is done upto the bill quantity and the quality is satisfactory.
27	Providing and laying in position plain / Reinforced cement concrete M20 for sub-structure/super-structure works, with cement @320kgs, 20mm & down size graded granite metal coarse aggregate @0.64cum and fine aggregates @ 0.43cum machine mix with super plasticisers @3lts confirming to IS 9103-1999 reaffirmed 2008, including cost of labours, HOM curing, scaffoldings, form work etc., complete as per specifications b) upto 5m height.	Cum.	605.44	Work is done upto the bill quantity and the quality is satisfactory.
28	KSRRB M2200-6. Providing TMT steel reinforcement for RCC work including straightening, cutting, bending, hooking, placing in position lapping and/or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour HOM complete as per specifications. MORT&H specifications No. 1600 and 2200. TMT bars Fe 500.	Tonne	84.00	Work is done upto the bill quantity and the quality is satisfactory.
33	providing and laying 100mm thick pre-cast cover slabs over drains of width not exceeding 800mm using M20 concrete reinforced with steel @ 6.00 kg/Sqm. Slabs jointed in CM 1:3 proportion and nicely finished including providing holes in the cover slabs wherever necessary for easy drainage of surface water including of labour, materials, HOM, curing, lead and lift charges etc., complete as per MORT&H specifications no. 1500,1700	m	1171.43	Work is done upto the bill quantity and the quality is satisfactory.
35	Construction of granular sub-base Grading-V as sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/trap/basalt material, mixing in a mechanical mix plant at OMC, carriage of mixed material to work site, spreading in uniform layers with motor grader o prepared surface and compacting with vibratory power roller to achieve the 98% proctor density, complete as per specifications. Clause 401 of MORT&H V revision.	Cum.	2926.40	Work is done upto the bill quantity and the quality is satisfactory.
36	KSRRB M400-17. providing, laying, spreading, and compacting crushed stone aggregate of granite/trap/basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH specifications no. 406.	Cum.	4603.15	Work is done upto the bill quantity and the quality is satisfactory.
37	Providing and constructing granite/trap/basalt size stone masonry in foundation with cement mortar and stone hammered dressed in courses not less than 20cms high bond stones at 2m apart in each course including cost of materials, labour, HOM, curing complete as per specifications.	Cum.	41.09	Work is done upto the bill quantity and the quality is satisfactory.
38	Providing and constructing with available granite/trap/basalt size stone masonry in foundation with cement mortar and stone	Cum.	26.41	Work is done upto the bill

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	hammered dressed in courses not less than 20 cms high bond stones at 2m apart in each course including cost of materials, labour, HOM, curing complete as per specifications.			quantity and the quality is satisfactory.
39	Providing flush pointing to square rubble, course or uncoarsed stone masonry with cement mortar, 20mm deep after raking joints to depth of 20mm nicely lining, including cost of materials, labour, HOM curing complete as per specifications in cement mortar 1:3.	Cum.	98.80	Work is done upto the bill quantity and the quality is satisfactory.
46	Providing and fixing pre cast solid cement concrete kerb stones made out of CC 1:2:4 with top and bottom width of 114 and 165mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including form work, curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc., complete as per the directions of engineer-in-charge.	Nos.	2167.67	Work is done upto the bill quantity and the quality is satisfactory.
55	Providing and laying of a reinforced cement concrete NP# pipe duct, 300mm dia, across the road (new construction), extending from drain to drain in cuts and toe of slope to toe of slopes in fills, constructing head walls at both ends, providing a minimum fill of granular material over top and sides of RCC pipe as per IRC:98-1997, bedded on a 0.3m thick layer of granular material free of rock pieces, outer to outer distance of pipe at least half dia of pipe subject to minimum 450mm in case of double and triple row ducts, joints to be made leak proof, invert level of duct to be above higher than ground level to prevent entry of water and dirt, all as per IRC: 98-1997 and approved drawings complete as per specifications.	Rmt.	277.40	Work is done upto the bill quantity and the quality is satisfactory.
57	KSRRB M500-6. providing and applying primer coat with SS bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg/sqm using mechanical means complete as per specifications. Clause 503 of MORT&H V revision.	Sqm.	9756.26	Work is done upto the bill quantity and the quality is satisfactory.
58	Cleaning the existing WBM road surface including sqm removing of binding materials and other foreign matter with wire brushes and small pricks, sweeping with brooms or soft brushes and finally dusting with old gunny bags and /or compressed air, to receive bituminous treatment including cost of all materials, labour, HOM complete as per specifications.	Sqm.	9756.26	Work is done upto the bill quantity and the quality is satisfactory.
59	KSRRB M500-17. providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and transporting the hot mix to work site , laying to the required grade, level and alignment, rolling with smooth wheeled vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications Clause 505 of MORT&H V revision using 40/60 TPH capacity HMP with - Mechanical paver Gr-II (50mm to 75mm) with 4.5 % VG30 bitumen.	Cum.	487.81	Work is done upto the bill quantity and the quality is satisfactory.
60	KSRRB 500-7. providing and applying tack coat using 80/100 grade bitumen (VG10) on the prepared black topped surfaced at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surfaces) including cost of all materials, labour, HOM complete as per specifications. Clause 503 of MORT&H V revision.	Sqm.	9756.26	Work is done upto the bill quantity and the quality is satisfactory.
61	Providing and laying bituminous concrete 40mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work	Cum.	292.69	Work is done upto the bill quantity and

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	site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 507 of MORT&H V revision as per IRC SP-53-2015 using 40-60 TPH capacity HMP with mechanical paver grading II (30-45mm) with 5.4% of modified bituminous binder consisting of 4.97% of VG30 bitumen (60/70 grade) and 0.43% of plastomeric thermoplastics.			the quality is satisfactory.

In respect to the above subject and name of the work, we have inspected the work and the Quantity and Quality of the above mentioned items of work was found to be completed satisfactorily for the First and Part bill.

Yours faithfully,

For NEZ Infratech Private Limited

NEZ Infratech Pvt. Ltd.

Team Leader
(H V Mallikarjuna)

Copy to

1. Chief Engineer- Road Infrastructure.
2. Assistant Executive Engineer, Road Infrastructure – Dasarahalli Division.
3. Office Copy.